The photographs of Elizabeth-street (which I now submit) taken by Messrs. Perry & Co. during heavy rain storms, will give some idea of the vast body of water that passes down that street during a storm, but it is only by actual inspection of the scene after the flood has subsided that any conception can be formed of the destruction of property caused by such sudden inundations.

18, Collins-street East,
   May 16th, 1864.

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ART. XXX.—*On the Surface and Underground Drainage of the City of Melbourne.* By A. K. SMITH, Esq., C.E. F.R.S.S.A.

[Abstract of paper, read 21st November, 1864.]

This paper on the Underground Drainage, is a companion one to that on the Surface Drainage of Melbourne, read 16th May, 1864.

The author, in forcible language, showed the great danger arising from want of proper sub-drains, and the consequece existence of fœtid pools, cesspits, and other abominations, under and around human habitations, and he also warned his auditors that fine streets and superficial external cleanliness, will not prevent the evil consequences of concealed nuisances. The author illustrated his statements from his own experience in Melbourne and elsewhere, and supported them with competent medical authority.

The author then proceeded to show at length—

That great facilities exist in Melbourne for efficient sewerage, owing to the abundant supply of water.

That the experience obtained during many years by the General Board of Health in England, has established the soundness of the principle of tubular drainage-pipes for sewerage of towns and cities, and the great economy and efficiency of them when in use.

That pipes varying from four inches up to twelve inches, have been and are successfully used for drainage in lieu of the old brick drains (nearly as many feet in diameter), to the great benefit of health, the more efficient removal of sewage, and a vastly decreased cost. That the amount requisite for removing deposit alone from the old drains of large size, forms a very large proportion of the first cost of the pipe-